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A BIBLIOGRAPHY OF
CANADIAN CLIMATE
1763-1957

OTTAWA - CANADA
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A BIBLIOGRAPHY OF CANADIAN CLIMATE 1763—1957

Morley Thomas

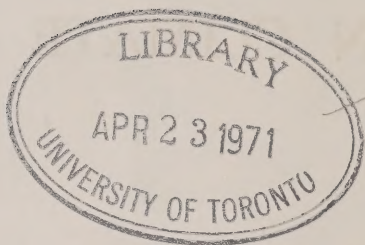
COMPILED BY
MORLEY K. THOMAS

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FOREWORD

This Bibliography of Canadian Climate, compiled by Morley K. Thomas will, we are sure, be a most useful reference book for all those with a need to know about the climate of Canada. The publication is sponsored jointly by the Division of Building Research, National Research Council and the Meteorological Branch, Department of Transport. A reader may perhaps wonder what the connection is between the Meteorological Branch and the Division of Building Research of the National Research Council. From the inception of its work the Division of Building Research has been vitally concerned with the climate of Canada. It has always maintained close liaison with the Meteorological Branch. The compiler of this bibliography was seconded from the Meteorological Branch to the Division of Building Research from 1951 to 1953 when much of the early work was done on the manuscript. Thus it had always been felt that when publication became possible it should be done as a joint effort by the two organizations. As the reader will realize, the publication is available now only as a result of great personal effort and perseverance by Morley Thomas, to whom we express our congratulations and thanks.

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Director,
Division of Building Research,
National Research Council,
Ottawa, Ontario.

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Toronto, Ontario.

A Bibliography of Canadian Climate 1763-1957

INTRODUCTION

CONCEPT

The first thoughts of preparing a bibliography of Canadian climate occurred in 1950 when the writer collected nearly 100 references pertaining to the climate of this country. With the encouragement of Dr. Andrew Thomson, then Director of the Meteorological Branch, to make a more complete search for books, articles and papers, the project grew until now, in 1961, the present reference list contains nearly 1400 items. This bibliography may be used not only as a ready reference to find out what has been published on some of the more modern aspects of Canadian climatology, but also as an historical reference to what was written decades, and even centuries ago.

SOURCES

The project's inception began with an examination of the works of Sir Frederick Stupart, Director of the Meteorological Service of Canada 1894-1929, A. J. Connor, Dominion Climatologist 1909-1950, C. C. Boughner, present Chief of the Climatology Division and C. E. K  ppe who published "The Canadian Climate" in 1931. Study of these articles and their references led to still more references. Numerous articles written in the nineteenth century were discovered by surveying the publications of the Canadian Institute (from 1852), the Nova Scotia Institute of Science (from 1864) and the Canadian Record of Science (from 1885). Issues of the American Meteorological Journal (1884-1893) and various official publications of the national weather services of Canada and the United States provided additional material from the last century.

Three post World War II meteorological bibliographical series have been of valuable assistance. These are the Meteorological and Geostrophysical Abstracts series of the American Meteorological Society which began as a monthly publication in 1950; the Arctic Bibliography prepared by the Arctic Institute of North America and sponsored by the United States Department of Defence, the first volume of which was published in 1953; and the SIPRE Bibliographies prepared by the Snow, Ice and Permafrost Research Establishment of the United States Army which have appeared during the past few years. Acknowledgements must also be made to special bibliographies prepared by the Royal Meteorological Society, the American Meteorological Society, the Great Lakes Research Division of the University of Michigan, and the Subcommittee on Hydrology of the Associate Committee on Geodesy and Geophysics, National Research Council, Canada. To find references on some of the more obscure articles and books, the catalogues of the Toronto Public Reference Library, the University of Toronto Library, the National Research Council Library in Ottawa, and the Meteorological Headquarters Library in Toronto have been reviewed from time to time during the past decade.

CONTENT

In general, items in the main body of the bibliography are listed first chronologically and then alphabetically by author. During the final stages of preparation, it was sometimes necessary to insert items out of alphabetical order in order not to disturb index work already completed. Each item is identified by a serial number which consists of the calendar year of publication followed by a number indicating the alphabetical ranking of the author's surname in that year. The author's christian names have been reduced to initials in every case for simplicity and uniformity. A standard arrangement follows where the complete name of the article is given followed by the name or the abbreviated name of the publication in which it appeared. No italics or underlining are shown for the name of the publication, but there is always a period following the name of the article. Following the name of the publication a standard number block gives the volume, the number of the issue and the pages involved. The year of publication is then shown, and if available, the month is also included. In the listing of books, the publisher's name is shown after the title followed by the city and year of publication and the number of pages in the book.

Appendix I contains an index of all periodicals listed along with any abbreviations used. A subject index, shown on Appendix II, will provide assistance in locating references on any subject. Items in the main subject index are grouped under each subject according to their geographical location. Fifteen regions of Canada which have been used for the purpose of geographical grouping, are listed in Appendix III. A few references have been listed concerning papers and articles on areas of the United States which are adjacent to Canadian areas with similar climatic characteristics.

In addition to the main subject index, an author index lists chronologically the reference number of every article written by each author. Finally, Appendix IV contains an annotated list showing the routine publications containing climatological data. References to these serial items are not contained in the general subject and author indexes.

SUPPLEMENTAL ISSUES

Since several score of books, articles and reports concerning the climate of Canada are now being published annually, it has not been possible to include the most recent references in this bibliography. To meet the need for current information, supplemental bibliographies will appear every two years for the next decade at which time a revision of the current work is planned. Along with current references, these supplementary issues will contain earlier references which were either overlooked or unknown to the writer at this time. The first supplementary issue containing 1958 and 1959 items, for the most part, is scheduled for publication within the next year.


ACKNOWLEDGEMENTS

Preparation and publication of this bibliography would not have been possible without the encouragement and assistance given by staff members of the Meteorological Branch and the Division of Building Research. From the beginning of the project, Dr. Andrew Thomson, Director of the Meteorological Branch until 1959, has been an enthusiastic sponsor and has provided several

early references. The present Director, Mr. P. D. McTaggart-Cowan, has carried on support of the project, and has facilitated the final publication arrangements. Mr. R. F. Legget, Director of the Division of Building Research, an organization to which the writer was seconded from 1951 to 1953, has maintained an active continuing interest in the project. The writer's successor as Building Research climatologist, Mr. D. W. Boyd, has assisted in the verifying and correcting of different items, as have Miss M. Gerard, editor of The Division of Building Research and Miss E. Carson, librarian of that organization. In the Meteorological Branch, Mr. C. C. Boughner, Chief of the Climatology Division and other meteorologists have assisted from time to time with the compilation, as has Miss M. Skinner, librarian at Meteorological Branch Headquarters. Last, but not least, publication of the bibliography has been made possible by the careful checking organized by Mr. E. J. Gregga and Miss E. McKearney and the typing of the different manuscripts supervised by Mrs. D. Page and Mrs. N. Moncrieff.

Climatology Division
Meteorological Branch
Department of Transport
June 21, 1961

M. K. THOMAS



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BOWIE, E. H.....	1917/1	CLARKE, S. E.....	1947/9
BOYD, D. W.....	1947/4, 1950/9, 1954/68, 1955/8, 1955/9, 1955/10, 1955/11, 1955/23, 1955/71, 1956/11, 1956/50, 1957/62, 1957/63	CLAYTON, H. H.....	1927/1, 1934/4, 1947/10
BRADDELEY, R. E.....	1833/1	CLINCH, R. L.....	1955/17
BREMMER, P. C.....	1952/58	CLODMAN, J.....	1953/24, 1953/63, 1956/16, 1957/19, 1957/20
BRISTOR, C. L.....	1951/5	COLEMAN, A. P.....	1921/2
BROOKS, C. E. P.....	1919/1, 1950/10, 1950/11	COLLINS-WILLIAMS, C.....	1955/18
BROOKS, C. F.....	1915/1, 1918/1, 1936/1, 1947/5	CONGER, N. B.....	1908/6
BROOKS, E. M.....	1954/10	CONNOR, A. J.....	1915/4, 1918/2, 1920/1, 1922/3, 1926/1, 1930/4, 1931/1, 1931/2, 1933/3, 1936/1, 1936/2, 1937/5, 1939/1, 1941/3, 1945/3, 1947/11, 1948/7, 1949/5
BROOKS, E. S.....	1947/5	CONRAD, V.....	1942/3
BROWN, A. H.....	1955/12	COOK, F. A.....	1955/19
BROWN, R. H.....	1940/2	COOKE, D. S.....	1952/9, 1953/25
BROWN, P. R.....	1953/13	COPP, S. C.....	1956/17
BROWN, R. J. E.....	1957/6	CORTON, E. L.....	1955/20
BRUCE, J. P.....	1951/6, 1957/7, 1957/8, 1957/9, 1957/10, 1957/11, 1957/64	COURT, A.....	1948/8, 1949/6
BRUN, P.....	1952/6, 1953/14	COX, H. J.....	1917/2
BRYCE, P. H.....	1903/1	CRAIGIE, J. H.....	1934/5
BUCKINGHAM, H.....	1907/1	CRAIGIE, W.....	1854/2
BUCKLER, S. J.....	1956/12	CRARY, A. P.....	1955/21
BURBIDGE, F. E.....	1951/7, 1957/12	CRAWFORD, C. B.....	1951/10, 1952/10, 1952/30, 1955/22, 1955/23, 1956/17, 1957/21
BURKE, C. J.....	1945/1	CRAWFORD, L. C.....	1953/105
BURTON, A. C.....	1955/13	CROCKER, A. M.....	1949/7, 1951/25, 1952/11
BYERS, H. R.....	1941/2	CRONIN, F.....	1956/18
CALDWELL, O. G.....	1936/4	CROSS, C. M.....	1950/15
CALEF, W.....	1950/12, 1957/13	CROWE, P. R.....	1936/3
CALLENDAR, G. S.....	1955/14	CURRIE, B. W.....	1947/12, 1948/9, 1951/11, 1953/27, 1953/28, 1954/12, 1954/13, 1954/14, 1954/15, 1954/16, 1955/40
CAMERON, H.....	1944/4, 1953/16	CURRIE, D. B.....	1951/70
CAMPBELL, W. D. C.....	1856/1	DADE, REV. C.....	1862/1
CAMSELL, C.....	1919/2	DAGENAIS, P.....	1942/4
CARPENTER, A. B.....	1940/5	DAVISON, A. E.....	1943/4
CARPMAEL, C.....	1881/2	DAW, J. E.....	1929/2
CARRUTHERS, N.....	1950/11	DAWSON, G. M.....	1888/1
CARTER, H. G.....	1935/1	DAY, D. C.....	1951/12
CAVADIAS, G. S.....	1955/79	DAY, P. C.....	1924/1, 1926/2
CHAMBERLIN, T. C.....	1923/2	DEBENHAM, F.....	1930/5
CHAMPLIN, M. J.....	1950/14	DE LA BARRE, E. B.....	1902/1
CHANDLER, D. C.....	1956/4	DE LA RUE, A. E.....	1950/1
CHANG, J.....	1957/17, 1957/18	DE LURY, R. E.....	1938/5
CHAPMAN, J. D.....	1952/8, 1956/13	DENISON, F. N.....	1908/1, 1925/1, 1932/2, 1934/6
CHAPMAN, L. J.....	1938/18, 1953/23, 1956/39		
CHAPMAN, S.....	1935/2		
CHAPPELL, E.....	1817		
CHERRIMAN, J. B.....	1853/3, 1854/1		
CHIPMAN, W.....	1895/4		
CHURCH, P. E.....	1938/3, 1938/4		

DE PERCIN, F.....	1954/17, 1954/18, 1956/19	FORWARD, C. N.....	1954/24
DE QUERVAIN, M. R.....	1950/16	FOSTER, L. B.....	1951/21
DESSUREAUX, L.....	1949/8	FOTHERGILL, N. D.....	1953/36
DEWAR, D.....	1950/11	FOX, R. L.....	1952/15
DEWAR, S. W.....	1952/12, 1953/103	FRANKCOM, C. E. N.....	1954/25
DEWEY, C.....	1838/2, 1839/4, 1859/3	FRASER, D.....	1949/31, 1950/36
DEXTER, R. V.....	1944/6, 1947/13, 1947/14, 1948/10, 1953/29, 1954/19, 1956/20	FRASER, D. A.....	1957/22, 1957/23
DICKSON, J.....	1952/6	FRAZER, J. E.....	1950/17
DILLON, L. S.....	1956/21	FREEMAN, J. R.....	1926/3
DOAN, K. H.....	1942/15	FRENCH, R. de L.....	1932/3
DOANE, F. W. W.....	1896/1, 1900/1, 1904/1, 1905/1, 1910/1	FROST, B. C.....	1954/26
DOE, L. A. E.....	1951/13, 1953/96	FROST, R. L.....	1934/7
DOLE, R. M.....	1928/1	FRUTH, J.....	1901/2
DÖLL, L.....	1937/6	FULKS, J. R.....	1954/27
DOREY, D. B.....	1955/24	GAMAGE, L. A.....	1956/29
DORRANCE, R. L.....	1917/3	GANONG, W. F.....	1952/16
DORSEY, H. G.....	1946/1, 1949/9, 1951/14	GARRIOT, E. B.....	1903/2
DOUGLAS, R. H.....	1954/20	GAUTIER, J. A.....	1870/2, 1877/2
DRUMMOND, A. T.....	1889/2, 1889/3, 1890/2, 1896/2	GIBSON, R. A.....	1945/5
DUJAY, W. C.....	1954/82	GIDDINGS, J. L.....	1954/28
DUNBAR, M.....	1954/21, 1956/22, 1956/23	GIDDINGS, J. W. JR.....	1947/20
DUNBAR, M. J.....	1947/15, 1951/15, 1952/28, 1954/22, 1955/25	GILBERT, G. H.....	1944/7, 1953/31, 1955/30, 1957/24, 1957/25
DURST, C. S.....	1950/11	GILL, G. C.....	1944/10
DYMOND, J.....	1770/1	GILLIES, D. K. A.....	1954/29, 1956/62
EDHOLM, O. G.....	1954/23, 1955/13	GLENESK, N. A.....	1951/12, 1951/23
EICHMEIER, A. H.....	1951/16	GODBOUT, E.....	1949/8
EINARSSON, E.....	1955/26, 1955/27	GODSON, W. L.....	1949/18, 1950/18, 1950/19, 1952/17, 1954/54, 1955/31, 1955/32, 1955/33, 1955/34, 1956/58, 1957/45
ELLIOTT, R. D.....	1949/10	GOLD, L. W.....	1950/28, 1951/55, 1952/18, 1953/33, 1954/30, 1956/24, 1956/25, 1957/26, 1957/73
ELLIS, F. W.....	1884/3	GOLDTHWAIT, D. A.....	1948/2
ELLIS, J. H.....	1936/4	GOODBRAND, C. G.....	1949/11
ELLIS, H. M.....	1951/17	GOODMANSON, M. M.....	1944/12
ELSLEY, E. M.....	1951/18	GORDON, A. R. JR.....	1950/20
ELSON, J. A.....	1947/38	GORHAM, E.....	1957/33
ELVINS, A.....	1908/2	GOULD, D. H.....	1951/51
ESHLEMAN, C. H.....	1921/6	GOWAN, E. H.....	1953/34
ESPENSHADE, E. B.....	1956/60	GRAARUD, A.....	1932/4
FAIRCHILD, C. C.....	1902/3	GRACE, N. H.....	1957/27
FALKOWSKI, S. J.....	1954/17, 1956/19	GRAHAM, R. C.....	1943/5
FARROW, R. C.....	1937/7, 1942/5	GRAINGE, J. W.....	1956/17
FIELD, W. O.....	1951/19	GRASSHAM, R. T.....	1907/2
FINLAYSON, H. M.....	1952/13, 1952/67	GRAY, G. J.....	1951/24
FLEMING, M. R.....	1951/20	GRAY, J. L.....	1945/6
FLINT, R. F.....	1947/16, 1952/14, 1955/28	GREELY, A. W.....	1886/3
FLOHN, H.....	1955/29	GREENAWAY, K. R.....	1950/21, 1952/28
FOBES, C. B.....	1945/4		
FORBES, A.....	1953/30		

GROISSMAYR, F. B.....	1946/2	HIND, H. Y.....	1878/1, 1899/2
GUILLET, C.....	1904/2	HINGSTON, SIR W. H.....	1884/2
GUNN, K. L. S.....	1952/37	HINTON, E.....	1938/9
GUNN, W. W. H.....	1951/25	HOBBS, W. H.....	1910/2, 1948/13
GUTENBERG, B.....	1953/35	HODGINS, J. G.....	1855/3
GUTSELL, B. V.....	1949/13		
HACHEY, H. B.....	1933/4, 1934/8, 1934/9, 1935/3, 1938/6, 1939/2, 1948/12, 1949/1, 1949/2, 1949/14, 1949/15, 1952/19, 1952/20, 1953/36, 1954/32, 1954/33	HOGUE, D. W.....	1957/34
HAGE, K. D.....	1954/34, 1957/29	HOLLAND, J. D.....	1956/27
HALE, E. B.....	1947/21	HOLLISTER, H. J.....	1954/39, 1956/28
HALL, C. F.....	1879/3	HOLMES, R. M.....	1956/46, 1957/76
HALL, H. E.....	1945/7	HOLTZ, C. D.....	1957/35
HALLIDAY, W. E. D.....	1950/22		
HALLMAN, E. S.....	1950/23	HOOPER, F.....	1953/8
HAMILTON, R. A.....	1946/3	HOOVER, O. H.....	1938/13, 1948/14
HANBURY, D. T.....	1900/2, 1904/3	HOPE, E. C.....	1938/26
HANSEN, J. P.....	1947/22	HOPKINS, J. W.....	1935/4, 1935/5, 1936/6, 1936/7, 1937/11, 1938/10, 1938/11, 1938/12, 1939/3, 1941/5, 1941/6, 1941/7
HANZAWA, M.....	1956/61	HOPKINSON, J.....	1898/2
HANZLIK, S.....	1937/10		
HARE, F. K.....	1949/16, 1950/24, 1950/25, 1951/26, 1951/27, 1951/28, 1951/29, 1952/21, 1953/37, 1955/35, 1955/36	HORNSTEIN, R. A.....	1948/15, 1950/26, 1951/34, 1951/35, 1952/23, 1954/40, 1954/41, 1954/42
HARRINGTON, E. L.....	1928/2	HOSLER, C. L.....	1956/29
HARRIS, D. L.....	1953/38	HOVDE, M. R.....	1934/10
		HOWE, G. F.....	1925/2
HARRISON, L. P.....	1933/5	HOWELL, W. E.....	1952/24, 1953/40, 1953/41, 1953/42
HARRY, K. F.....	1951/31, 1957/30	HOYT, W. G.....	1944/11
HATTERSLEY-SMITH, G.....	1952/28,	HUBERT, Frère.....	1952/25
HAYFORD, J. F.....	1922/4	HUGHES, L. A.....	1955/39
HAYNES, B. C.....	1956/42	HULL, T. E.....	1949/18
		HUME, J. I.....	1953/43
HAURWITZ, B.....	1938/7, 1938/8, 1944/8		
HAWBOLDT, L. S.....	1952/22	HUNTINGTON, E.....	1924/2, 1945/8
HEINTZELMAN, O. H.....	1955/38	HUNTSMAN, A. G.....	1930/6
HENN, C. B.....	1839/1	HURDIS, J. L.....	1867/2
HENRY, A. J.....	1902/2, 1905/2, 1928/3	HURLBURT, J. B.....	1872/3, 1880/2
		HUSTICH, I.....	1949/19
HENRY, T. J. G.....	1947/23, 1949/17, 1951/32, 1954/35, 1957/31, 1957/32	HUTCHEON, N. B.....	1954/43, 1956/31
HENSEL, S. L.....	1956/3	HUTCHINSON, D. L.....	1909/3, 1911/2
HENSON, W. R.....	1951/33, 1954/36		
HEPWORTH, M. W. C.....	1905/3	INGERSOL, E.....	1888/2
HERMAN, F. A.....	1957/33	INGLIS, P.....	1953/44
		IRWIN, R. W.....	1957/37
HERMANN, F.....	1954/32	IVES, J. D.....	1957/38
HEUSSER, C. J.....	1954/37, 1954/38, 1956/26		
HEWSON, E. W.....	1943/8, 1944/9, 1944/10	JACKSON, A. W.....	1957/39
HIGHSMITH, R. M. JR.....	1955/38	JACOBS, L.....	1945/9
HILL, K. W.....	1953/39	JACOBS, W. C.....	1956/42
		JACOBSON, W. C.....	1951/36
		JAILER, R. W.....	1955/77
		JAMES, M. F.....	1935/5
		JEFFERSON, M.....	1918/3
		JENKINSON, A. F.....	1957/40
		JENNESS, J. L.....	1949/20, 1953/45

- JOHNS, P.....1954/44
JOHNSON, C. B.....1948/16
JOHNSON, E. C.....1953/47
JOHNSON, H. N.....1936/8
JOHNSON, L. P. V.....1940/7

JOHNSON, O.....1953/48, 1956/30, 1957/41
JOHNSTON, H.....1953/46
JOHNSTON, W. A.....1930/7
JOHNSTONE, C. L.....1951/6
JONES, O. O.....1953/49

KAMINSKI, H. S.....1954/45
KANE, E. K.....1853/4, 1856/2
KATZ, M.....1952/51
KAYLOR, R. E.....1955/39
KEELE, J.....1910/3

KELLY, W.....1832/1, 1837/1, 1837/2
KENDALL, G. R.....1956/11, 1956/32, 1956/33
KENDREW, W. G. 1949/21, 1953/50, 1955/40,
1956/34
KENNEDY, D. B.....1954/46
KERR, D. P.....1950/27, 1951/37, 1951/38,
1956/34

KERRY, J. G. G.....1946/4
KETCHEN, K. S.....1956/35
KEULEGAN, G. H.....1953/51
KIMBLE, G. H. T.....1955/41
KINDLE, E. M.....1920/2, 1924/3, 1925/3

KING, R.....1836/1
KINGSTON, G. T.....1857/2, 1858/1, 1858/2,
1860/1, 1861/2,
1862/2, 1863/1,
1864/2
KINISKY, T. J.....1957/42
KIRK, D. W.....1951/39
KLEIN, G. J.....1948/17, 1950/28

KLEIN, W. H.....1946/5, 1957/43
KLING, S.....1948/18
KNOX, J. L.....1952/27, 1953/52, 1955/42
KOENIG, L. S.....1952/28
KOEPE, C. E.....1931/3

KOLB, L. L.....1944/12
KREUGER, A. F.....1954/47
KULLMER, C. J.....1936/9
KULP, J. L.....1955/21

LACHLAN, R.....1855/5
LAMARR, W. H.....1884/3
LAMB, W.....1938/13
LAMONT, A. H.....1949/22, 1956/36
LANDSBERG, H.....1943/9, 1945/10

LANGBEIN, W. B.....1944/11
LANGILLE, R. C.....1947/28
LANGLEBEN, M. P.....1953/60
LAUDER, J. R.....1954/48, 1957/12
LAUFF, G. H.....1956/4

LAUTZENHIZER, R. E.....1953/53
LAUZIER, L.....1952/29, 1954/49, 1957/68
LAWRENCE, D. B.....1951/40, 1953/54
LAYCOCK, A. H.....1957/44
LEE, D. H. K.....1949/23

LEE, J. D.....1950/29
LEE, R.....1953/65, 1955/43, 1957/45
LEE, S. C.....1922/5
LEFROY, Sir J. H.....1852/1, 1855/6
LEGGET, R. F.....1948/19, 1948/20, 1949/47,
1951/41, 1952/30,
1957/21

LEIGHLY, J.....1941/8
LEMONS, H.....1949/23
LEPPARD, R. E.....1953/34
LESLIE, L.....1953/14
LILLY, J. E.....1934/11

LINSLEY, R. K.....1952/31, 1953/55
LLOYD, T.....1943/10
LONGARD, J. R.....1952/32
LONGLEY, R. W.....1942/8, 1944/9, 1944/13,
1947/25, 1949/24,
1950/30, 1951/42,
1951/43, 1952/33,
1952/34, 1953/56,
1953/57, 1953/58,
1954/50, 1954/51,
1954/52, 1956/10,
1957/46
Low, A. B.....1955/26

Low, A. P.....1887/3, 1888/3, 1898/3
LOTZ, J. R.....1957/74
LYDE, L. W.....1907/4
LYSGAARD, L.....1949/25, 1950/31
LOUDON, W. J.....1905/4, 1907/3, 1908/3

MACCLURE, K. C.....1946/6
MACDONALD, A.....1947/26
MACDONALD, C. S.....1933/6
MACDONALD, W. F.....1938/14
MACGREGOR, C. J.....1862/3, 1863/2, 1870/4

MACHATTIE, L. B. 1951/46, 1957/48, 1957/75
MACKENZIE, C. J.....1936/10
MACOUN, J.....1881/3, 1903/3
MACOUN, W. T.....1921/3
MAHAFFY, F. J.....1952/36

MAIN, T. C.....1935/6
MALCOLM, W.....1919/2
MANLEY, G.....1955/44
M'ANSLAN, W.....1888/6
MARIS, H. B.....1931/4

MARKHAM, S. F.....1947/27
MARKHAM, W. E. 1951/80, 1952/65, 1953/59,
1953/103, 1957/67
MARR, N.....1938/27

MARSHALL, E. W.....	1955/21	MILLAR, F. G.....	1936/11, 1937/12, 1952/45
MARSHALL, J. S.....	1947/28, 1952/37, 1952/53	MILLER, A. A.....	1951/51, 1953/68
MASON, A. H.....	1955/45	MILLER, E. R.....	1934/14
MASSEY, E. E.....	1953/62	MILLS, R. W.....	1916/3
MATEER, C. L.....	1954/84, 1955/46, 1956/58	MILNE, J. A. S.....	1957/1
MATH, F. A.....	1934/12	MIRPLEES, S. T.....	1932/5
MATHER, W. W.....	1848/1	MISENER, A. D.....	1955/48
MATHEWS, W. H.....	1951/44, 1956/37	MITCHELL, G. S.....	1949/6
MATHIASSEN, T.....	1945/11	MITCHELL, J. L.....	1952/46
MCCAUL, C. C.....	1888/4	MOAKLER, J. J.....	1949/3, 1953/69
MCCLAINE, E. P.....	1952/38	MOHN, H.....	1907/7
MCCLELLAN, D. E.....	1952/1, 1957/47	MONROE, E.....	1956/40
MCCLEINTOCK, Sir. F. L.....	1862/4	MONSINGER, M. N.....	1940/9, 1943/12, 1947/29
MCCLURE, Sir R. J. L.....	1857/3	MONTGOMERY, M. R.....	1949/16, 1949/27, 1949/28, 1950/2
MCCONNELL, R. G.....	1891/2	MOOK, C. P.....	1953/47
MCCORMICK, D. G.....	1951/45, 1952/39, 1954/53	MOSBY, O.....	1939/4
MCCURDY, A. W.....	1907/5	MOSELEY, E. L.....	1903/6
MCDIARMID, F. A.....	1908/4	MOUAT, J. G.....	1883/2
MCDUGAL, E. G.....	1920/3	MULLER, F. B.....	1954/54
MCDUGALL, E.....	1925/4	MULLER, S. W.....	1947/30
MCDUGALL, G. F.....	1857/4	MUNGALL, A. G.....	1952/44
MCGEARY, D. S.....	1953/63	MUNN, R. E.....	1949/29, 1952/47, 1955/49
MCINNES, W.....	1909/4, 1913/2	MUNNS, T.....	1925/5
MCINTYRE, D. P.....	1950/33, 1953/65	MURPHY, J. J.....	1861/3
MCKAY, G. A.....	1952/35, 1953/64	MUSHKAT, C. M.....	1948/22
MCKENNA, J. A. J.....	1908/5	MUTTIT, G. H.....	1956/41
MCKIBBON, R. R.....	1933/7	MYERS, H. V.....	1953/70
MCLEAN, D. A.....	1949/26	MYERS, W. J.....	1863/3, 1864/6, 1865/2, 1865/3, 1866/1, 1866/2, 1867/3, 1868/2
MCLEAN, N. B.....	1928/4, 1929/3	MYERS, U. G.....	1901/3
MCLELLAN, H. J.....	1952/40	NAMAS, J.....	1955/50
MCLEOD, C. H.....	1885/2, 1886/4, 1887/4, 1904/4, 1906/2, 1907/6, 1913/3, 1914/1	NELSON, E. R.....	1951/52
MCLEOD, D. C.....	1953/76	NESBITT, L. D.....	1937/13
MCLEOD, K. T.....	1952/41, 1954/54	NEUBERGER, R. L.....	1944/14
MCMINN, R. G.....	1952/42	NOBLE, J. R. H.....	1938/7
MCMULLEN, D. N.....	1952/43, 1953/66	NORDENSKJOLD, O.....	1928/5
MCQUARRIE, A. F.....	1951/47	NORTON, W. C.....	1950/39
MCTAGGART-COWAN, P. D.....	1938/15, 1938/16, 1950/34, 1951/48, 1951/49, 1953/67	NURKLIK, A.....	1954/35
MECKING, L.....	1928/5	NUTTONSON, M. Y.....	1955/51
MEEK, J. H.....	1957/50	OAKS, W. W.....	1953/70, 1955/52, 1957/51
MEEK, V.....	1948/21	OGILVIE, W.....	1890/3
MEIER, M. F.....	1954/55	OLIVER, M. B.....	1949/30
MERCER, J. H.....	1956/38	OLIVER, V. J.....	1949/30
MERCIER, R. G.....	1956/39	ORR, J. L.....	1949/31, 1950/36, 1951/53
MERRILL, C. L.....	1951/50	ORVIG, S.....	1950/2, 1951/54, 1953/101, 1954/56, 1954/57, 1955/54
MIDDLETON, W. E. K.....	1934/13, 1935/7, 1936/11, 1943/11, 1944/22, 1946/7, 1952/44, 1953/104	OSMOND, H. W.....	1941/9, 1953/71
		OWENS, G. V.....	1953/6, 1953/7

- PACKER, R. W.....1954/58
PALMER, A. E.....1953/39
PALMER, W. M.....1947/28
PARDE, M.....1948/23
PARMELE, O. S.....1948/8
- PARRY, Sir. W. E.....1821/1, 1824/1, 1826/1
PATTERSON, J.....1915/5, 1915/6, 1919/3,
1920/4, 1926/4,
1931/5, 1932/6,
1933/8, 1934/15,
1934/16, 1934/17,
1935/8, 1938/17,
1940/10, 1949/33
- PAYNE, F. F.....1895/2
PAYNE, H. V.....1889/1
PEARCE, D. C.....1950/28, 1951/55, 1951/56
- PEARY, R. E.....1907/8
PEATTIE, R.....1923/3
PECKOVER, F. L.....1949/47
PEEL, R.....1953/73
PENNER, C. M.....1941/10, 1948/24
- PERKINS, E. A.....1893/1
PERKINS, P. J.....1955/55
PERRIE, D. W.....1949/34, 1949/35, 1950/37
PERRY, P. C.....1935/9, 1949/36
PETERS, H. F.....1955/62
- PETTERSEN, S.....1949/37, 1956/42
PETTIT, K. G.....1949/31, 1950/36, 1951/57,
1953/74
PETTIOT, E. F. S. T.....1875/3
PHILLIPS, E. K.....1936/10
PHILLIPS, N. A.....1950/38
- PHILLIPS, R. A. J.....1953/75
PICKARD, G. L.....1953/76
PICKERING, C.....1951/47, 1955/56
PIERCE, C. H.....1934/18, 1950/39
PINCOCK, G. L.....1947/31, 1951/58, 1951/59,
1953/77, 1956/53
- POOLE, H. S.....1867/4, 1868/3, 1869/3,
1870/5, 1871/2, 1872/4,
1880/3, 1910/4
- PORSILD, A. E.....1949/38
POTTER, J. G.....1951/60, 1952/49, 1953/11,
1953/78, 1955/57,
1955/58, 1955/59,
1956/43, 1956/44,
1957/10, 1957/52
- POWELL, L. B.....1932/7
POWER, B. A.....1952/18, 1954/30
PUTNAM, D. F.....1938/18, 1940/11, 1942/9,
1952/50
- RADCLIFFE, J. C.....1952/51
RAE, J.....1850/1
RAE, R. W.....1950/40, 1951/61, 1951/62,
1952/52, 1953/79,
1953/80, 1954/59
- RAUP, H. M.....1942/10
REBMAN, E. J.....1954/60
REED, T. A.....1957/53
REED, T. R.....1932/8
REMICK, J. T.....1942/11
- RHEUMER, G. A.....1953/81
RICHARDS, T. L.....1954/61
RICHARDSON, Sir J.....1825/1, 1828/1, 1828/2,
1839/2, 1839/3,
1851/1, 1855/6,
1861/4
RICHARDSON, R. W.....1936/12
RIEHL, H.....1956/45
- RIGBY, E. C.....1952/53, 1953/60
RIGSBY, G. P.....1954/55
RIPLEY, P. O.....1941/11
ROBERTSON, G. W.....1951/64, 1952/54,
1953/82, 1953/83,
1953/84, 1955/60,
1956/46, 1957/76
- ROBINSON, E.....1955/61, 1957/54
- ROBINSON, J. L.....1944/15, 1945/12, 1946/8,
1946/9, 1951/65
- RODAHL, K.....1954/62
ROE, C. L.....1952/55
ROE, F. G.....1954/63
ROKEBY-THOMAS, H. R.....1935/10
- ROOT, C. J.....1933/1, 1944/16
ROSE, A.....1766/1
ROSE, J. K.....1937/14
ROSENTHAL, S. L.....1956/47
ROSS, Sir J.....1819/1, 1835/2
- ROSS, R. B.....1957/55
RUEDY, R.....1945/14
RYDER, T.....1953/85
- SAALTINK, H. J.....1955/17
SABINE, E.....1845/1, 1853/5, 1853/6,
1857/5
SALTZMAN, P.....1950/41
SANDERSON, M.....1948/25, 1948/26, 1950/42,
1950/43, 1950/44,
1950/45, 1950/46,
1951/66, 1954/64
- SANDIFORD, P. J.....1956/62
- SAWYER, J. S.....1950/11
SCHELL, I. L.....1940/12, 1949/39
SCHOTT, G.....1934/19
SCHROEDER, M. J.....1950/47
SCHULMAN, E.....1946/10, 1956/48
- SCHYTT, S. V.....1956/60
SCORESBY, W.....1820/1
SHAFFER, W. H.....1936/4
SHAPLEY, H.....1953/86
SHARP, R. P.....1954/4, 1954/55

SHAW, E. B.....	1936/13	TAIT, G. W. C.....	1949/41
SHERIDAN, L. W.....	1941/12	TALBOT, E. A.....	1824/2
SHERMAN, O. T.....	1883/3	TALLMAN, E. G.....	1949/42, 1951/68
SHUTT, F. T.....	1910/5, 1914/3, 1917/3	TANNEHILL, I.....	1943/13
SIM, V. W.....	1957/71	TANNER, V.....	1947/34
SISSENWINE, N.....	1949/6	TARR, R. S.....	1897/1
SLOCUM, G.....	1938/20, 1938/21, 1938/22	TAYLOR, G.....	1938/24, 1941/13, 1947/35, 1949/43
SMALLWOOD, C.....	1853/7, 1858/3, 1859/1, 1860/2	TERASMAE, J.....	1955/80
SMITH, C. D. Jr.....	1950/48, 1950/49, 1950/55, 1952/55	THEAKSTON, F. N.....	1957/56
SMITH, D. H.....	1951/70, 1953/87	THEAMAN, J. R.....	1945/15
SMITH, W. R.....	1893/2	THIESSEN, A. D.....	1940/13, 1941/14, 1942/12, 1945/16, 1946/12
SMITH, W. R.....	1953/8	THOMAS, M. K.....	1948/4, 1949/44, 1951/69, 1953/92, 1953/93, 1953/94, 1953/95, 1954/67, 1954/68, 1955/65, 1955/66, 1955/67, 1955/68, 1955/69, 1955/70, 1955/71, 1956/10, 1956/32, 1956/33, 1956/50, 1957/57, 1957/58, 1957/59, 1957/60, 1957/61, 1957/62, 1957/63, 1957/64
SMOLIAK, S.....	1955/62	THOMPSON, C. E.....	1950/50, 1951/70, 1953/16, 1953/87, 1956/32, 1956/51
SMYTH, R.....	1952/56	THOMPSON, F. D.....	1947/36
SOBISKI, L. J.....	1952/57	THOMPSON, H. A.....	1951/70, 1953/103
SPILHAUS, A. F.....	1953/104	THOMPSON, H. R.....	1956/52, 1957/65
SPORNS, U.....	1955/63	THOMSON, A.....	1935/11, 1935/12, 1936/16, 1948/27, 1949/45, 1950/51, 1950/52, 1952/58, 1954/69
STACEY, E. C.....	1946/11	THOMSON, W. A.....	1934/21
STAGG, J. M.....	1933/9, 1934/20	THORN, W. A.....	1940/14, 1950/5, 1954/35
STANSFIELD, J.....	1919/4	THORNTWHAITE, C. W.....	1931/6
STARK, R. G.....	1953/88, 1954/65, 1954/66	THUMAN, W. C.....	1957/54
STARK, R. W.....	1954/36	TOMKINS, W. G.....	1859/2, 1860/3
STARR, V. P.....	1941/2	TREWARTHA, G. T.....	1937/15
STARRETT, L. G.....	1949/40	TULLY, J. P.....	1937/16, 1949/46, 1952/59, 1952/60, 1953/96
STEFANSSON, V.....	1921/4, 1922/6, 1944/17	TURNBULL, W. E.....	1938/8
STEVENS, H. T.....	1955/64	TURNER, A. R.....	1955/73
STICHLING, W.....	1954/8	TURNER, D. B.....	1956/13
STIRLING, J.....	1763/1	TURNER, J. A.....	1953/97, 1953/98, 1955/72, 1956/53, 1956/62
STOKER, J. G.....	1944/2	TURNOCK, W. J.....	1955/74
STONE, R. G.....	1936/14	TYNER, R. V.....	1950/53, 1951/71, 1951/72
STORR, D.....	1953/89	TYRRELL, J. B.....	1900/3, 1902/3, 1910/7
STRACHAN, R.....	1879/4, 1880/4, 1882/1, 1885/3, 1888/5	VAN HAARLEM, J. R.....	1948/28
STUART, D.....	1938/23	VAN ROYEN, W.....	1927/2
STUPART, Sir R. F.....	1891/3, 1893/3, 1895/3, 1898/4, 1903/4, 1904/5, 1905/5, 1907/9, 1910/6, 1911/4, 1913/4, 1914/4, 1914/5, 1916/3, 1917/4, 1921/5, 1922/7, 1922/8, 1923/4, 1924/4, 1924/5, 1924/6, 1926/5, 1928/6, 1929/4		
SUMNER, A. S.....	1953/90		
SUNDE, A.....	1956/49		
SUTHERLAND, P. C.....	1852/4, 1853/8		
SVERDRUP, H. U.....	1936/15		
SWANSBURG, R. H.....	1951/67		
SWINAMER, E. M. A.....	1953/91		

VEDERMAN, J.....	1950/55	WHITE, H. S.....	1957/69
VEYRET, P.....	1951/77	WHEELER, A. O.....	1916/4
VILLENEUVE, G. O.....	1943/19, 1946/16, 1948/29, 1954/74, 1954/75	WHEELER, E. P.....	1935/13
VILLMOW, J. R.....	1952/64, 1956/55	WHITE, L. W.....	1954/18
VISHER, S. S.....	1943/21	WIGGIN, B. L.....	1950/57
WALDICHUK, M.....	1953/100	WIGGINS, E. J.....	1957/54
WALES, W.....	1770/1	WILKINS, E. B.....	1954/82
WALKDEN, R. W.....	1948/30	WILLETT, H. C.....	1933/10, 1944/21, 1950/58
WALKER, E. R.....	1954/76	WILLIAMS, G. P.....	1956/25, 1957/26, 1957/66, 1957/77
WALKER, G. T.....	1934/22	WILLIAMS, P. Jr.....	1948/32
WALLIS, B. C.....	1915/7	WILNER, J.....	1955/81
WALPOLE, E. W.....	1957/56	WILSON, C. F.....	1938/25
WARD, W. H.....	1953/101, 1954/77, 1954/78	WILSON, H. P.....	1951/79, 1951/80, 1952/65, 1953/6, 1953/7, 1953/103, 1957/67
WASHBURN, G. H.....	1947/37	WINCHESTER, J. W.....	1954/83
WASKO, P. E.....	1954/79	WINDER, W.....	1850/2
WATSON, J. W.....	1956/56	WING, L. W.....	1951/81
WATT, J.....	1835/3	WISNER, G. Y.....	1898/0
WEBBER, B. C.....	1903/5, 1913/5	WITHERSPOON, D. F.....	1957/37
WEIGHTMAN, R. H.....	1917/1, 1931/7	WONDERS, W. C.....	1949/49
WEIR, T. R.....	1953/102	WOOD, G. A.....	1956/59
WELLINGTON, W. G.....	1945/17, 1949/50, 1950/59, 1952/66, 1954/36, 1954/80, 1954/81	WOODWORTH, W. C.....	1950/20
WEXLER, H.....	1936/17, 1937/17, 1948/31, 1950/56	WRIGHT, J. B.....	1957/30
		WRIGHT, J. G.....	1943/20
		WRIGHT, J. R.....	1951/31
		ZACKS, M. B.....	1945/19
		ZIKEEV, N. A.....	1956/57

APPENDIX I

INDEX OF PERIODICALS WITH ABBREVIATIONS

L'Actualité Économique	
Agricultural History	
Agricultural Institute Review	
Agronomy Journal	
Akademiia nauk Leningrad. Bulletin Scientifique	
Alaska Life	
American Industrial Hygiene Association Quarterly....	Amer. Ind. Hygiene Ass. Q.
American Journal of Science.....	Amer. J. Sci.
American Meteorological Journal.....	Amer. Meteor. J.
American Society of Horticultural Science Proceedings	Amer. Soc. Hort. Sci. Proc.
Annals of the Association of American Geographers	Ann. Ass. Amer. Geogr.
Archives des sciences physiques et naturelles	
Arctic: Journal of the Arctic Institute of North America.....	Arctic
Arctic Circular.....	Arct. Circ.
Auk	
Aus dem Archiv der Deutschen Seewarte.....	Aus d. Arch. dtsch. Seew.
Beaver,	
Bulletin of the American Meteorological Society.....	Bull. Amer. Met. Soc.
Bulletin of the Geographical Society of Philadelphia....	Bull. Geogr. Soc. Phila.
Bulletin of the Natural History Society of New Brunswick.....	Bull. Nat. His. Soc. N.B.
Canada Year Book	
Canadian Alpine Journal.....	Canad. alp. J.
Canadian Architect	
Canadian Aviation.....	Canad. Aviat.
Canadian Banker	
Canadian Engineer.....	Canad. Engr.
Canadian Entomologist.....	Canad. Ent.
Canadian Geographer	
Canadian Geophysical Bulletin.....	Canad. geophys. Bull.
Canadian Geographical Journal.....	Canad. geogr. J.
Canadian Journal	
Canadian Journal of Agricultural Science.....	Can. J. Agric. Sci.
Canadian Journal of Physics.....	Can. J. Phys.
Canadian Journal of Research.....	Canad. J. Res.
Canadian Journal of Technology.....	Can. J. Technology
Canadian Journal of Zoology.....	Can. J. Zoology
Canadian Naturalist.....	Canad. Nat.
Canadian Public Health Journal.....	Canad. publ. Hlth. J.
Canadian Record of Science.....	Canad. Rec. Sci.
Canadian Society of Technical Agriculturists	
Canadian Surveyor.....	Canad. Surveyor
Cereal News	
Culture	
Current Affairs	
Ecological Monographs.....	Ecol. Monog.
Ecology	
Economic Geography.....	Econ. Geogr.
Edinburgh Philosophical Journal	

Engineering Contract Record.....	Engng. Contr. Rec.
Engineering Journal (Montreal).....	Engng. J., Montreal
Field Naturalist.....	Fld. Nat.
Flight	
Folia Geographica Danica.....	Folia geogr. dan.
Forest Chronicle.....	For. Chron.
Geofysiske Publikasjoner.....	Geofys. Publ.
Geografiska Annaler (Stockholm).....	Geogr. Ann., Stockh.
Geographical Bulletin	
Geographical Journal.....	Geogr. J.
Geographical Review.....	Geogr. Rev.
Geographical Society of Philadelphia.....	Geogr. Soc., Phila.
Heartland	
Heating, Piping and Air Conditioning	
Heating and Ventilating.....	Heat. and Ventilating
Hermes	
Imperial Oil Review.....	Imp. Oil Rev.
International Association of Hydrology, Transactions	
International Review of the Science and Practice of Agriculture	
Journal of the American Society of Agronomy.....	J. Amer. Soc. Agron.
Journal of the American Waterworks Association.....	J. Amer. Wat. Wks. Ass.
Journal of the Biological Board of Canada.....	J. Biol. Bd. Canad.
Journal of the Cycle Research	
Journal of the Fisheries Research Board of Canada....	J. Fish. Res. Bd. Can.
Journal of Geology.....	J. Geol.
Journal of Meteorology.....	J. Meteor.
Journal of Glaciology.....	J. Glaciol.
Journal of the Institute of Navigation.....	J. Inst. Navig.
Journal of the Royal Astronomical Society of Canada	J.R. astr. Soc. Can.
Lancet	
Mariners Weather Log	
Meteorologische Annaler	
Meteorological Magazine (London).....	Met. Mag.
Meteorological Monographs, Boston	
Meteorologische Rundschau	
Meteorologische Zeitschrift.....	Met. Zeit.
Monthly Bulletin of Agricultural Statistics (Ottawa) ...	Mon. Bull. Agric. Statist.
Monthly Weather Review (Washington).....	Mon. Weath. Rev.
National Geographical Magazine.....	Nat. Geogr. Mag.
Nature (Paris)	
Norsk Geographische Tidsskrift.....	Norsk. geogr. Tidsskr.
Oceanographical Magazine	
Ottawa Naturalist	
Papers of the Michigan Academy of Science, Arts and Letters.....	Pap. Mich. Acad. Sci.
Polarforschung	
Polar Record.....	Polar Rec.
Proceedings of the American Philosophical Society.....	Proc. Amer. Phil. Soc.
Proceedings of the Canadian Institute	Proc. Canad. Inst.
Proceedings of the Central Snow Conference	Proc. Cent. Snow Conf.
Proceedings of the National Ice Association of America	Proc. Nat. Ice Assoc. Amer.

Proceedings of the Nova Scotia Institute of Science.....	Proc. N.S. Inst. Sci.
Proceedings of the Pacific Science Congress.....	Proc. Pacif. Sci. Congr.
Proceedings of the Pan-American Science Congress.....	Proc. Pan-Amer. Sci. Congr.
Proceedings of the Rochester Academy of Science.....	Proc. Rochester Acad. Sci.
Proceedings of the Royal Society of Canada.....	Proc. Roy. Soc. Can.
Public Affairs	
Revue Canadienne de Géographie.....	Rev. Canad. Geogr.
Revue de Géographie Alpine	
Roads and Bridges	
Royal Geographical Society Journal.....	Roy. Geog. Soc. J.
Royal Meteorological Society Quarterly Journal.....	Roy. Meteor. Soc., Quart. J.
Royal Society, London, Philosophical Transactions.....	Phil. Trans.
School	
Scientific Agriculture.....	Sci. Agric.
Scientific American.....	Sci. Amer.
Science	
Shell Aviation News	
Scottish Geographical Magazine.....	Scot. geogr. Mag.
Soil Science.....	Soil Sci.
Société de Géographie, Paris	
Symon's Meteorological Magazine.....	Symon's Met. Mag.
Tellus	
Transactions of the American Climatological and Clinical Association.....	Trans. Amer. Climatological and Clinical Assn.
Transactions of the American Fisheries Society.....	Trans. Amer. Fish. Soc.
Transactions of the American Geophysical Union.....	Trans. Amer. Geophys. Un.
Transactions of the American Philosophical Society....	Trans. Amer. Phil. Soc.
Transactions of the American Society of Civil Engineers	Trans. Amer. Soc. Civ. Engrs.
Transactions of the Canadian Institute.....	Trans. of the Canad. Inst.
Transactions of the Canadian Society of Civil Engineers	Trans. Canad. Soc. Civ. Engrs.
Transactions, Historical and Scientific Society of Manitoba	
Transactions of the Literary and Historical Society of Quebec	
Transactions, Royal Astronomical Society of Canada	
Transactions of the Royal Canadian Institute.....	Trans. Roy. Canad. Inst.
Transactions of the Royal Society of Canada.....	Trans. Roy. Soc. Can.
Tree-ring Bulletin	
U.S. National Bureau of Standards Journal of Research	
Weather	
Weatherwise	
Weekly Weather and Crop Bulletin	
World's Work	

APPENDIX II

LIST OF SUBJECTS USED IN INDEX

Agricultural Meteorology	Frontal Weather
Air Masses	Frost
Anemometers	Frost Action
Anticyclones	Frost Depth
Architecture	
Arctic Air Masses	General
Atlases	Geography
Atmospheric Circulation	Glaciology
Atmospheric Pollution	Gust Speeds
Aviation Weather	
	Hail
Barometers	Health
Bibliographies	Historical Weather Maps
Bioclimatology	History
Blizzards	Humidity
Building Codes	Hurricanes
Building Research	Hydrography
	Hydrology
Chinooks	Hydrometeorology
Climate	Hythergraphs
Climate Change	
Climatic Classification	Ice
Climatic Controls	Ice Accretion
Climatic Cycles	Ice Age
Climatic Data	Ice Fog
Climatic Services	Ice Islands
Clothing	Ice Storms
Cloud Physics	Illumination
Clouds	Indoor Climate
Coastal Weather	Induced Precipitation
Cyclones	Instruments
	International Geophysical Year
Dendrochronology	Inversions
Design Temperatures	Irrigation
Diurnal Variation of Humidity	
Diurnal Variation of Precipitation	Jet Streams
Diurnal Variation of Temperature	
Diurnal Variation of Winds	Lake Levels
Drizzle	Local Climate
Drought	
Dust	Methods
Dynamic Climatology	Microseisms
Electric Power Systems	Navigation
Entomology	Normal Values
Evaporation	November Storms
Evapotranspiration	Nuclear Fall Out
Exploration Reports	
	Observations
Fisheries	Ocean Currents
Floods	Oceanography
Flying Weather	Ozone
Fog	
Forecasting	Permafrost
Forestry	Phenomena
Freezing Index	Physiology
Freezing Precipitation	Plant Diseases

Polar Year
Popular
Precipitation
Precipitation Chemistry
Precipitation Extremes
Precipitation Forecasting
Precipitation Frequencies
Precipitation Pattern
Precipitation Trends
Precipitation Variability
Pressure
Pressure Pattern Flying
Public Weather

Radiometeorology
Radiosonde
Rain
Rain Intensity
Rainfall Cycles
Ranching
Runoff

Sailing Directions
Sea Ice
Seiches
Singularities
Smoke
Snow
Snow Ceilings
Snow Cover
Snow Crystals
Snow Density
Snow Loads
Snow Removal
Snow Research
Snow Surveys
Soil Moisture
Soil Temperatures
Solar Radiation
Statistics
Storm Damage

Storms
Summer Weather
Sunshine
Sunspots

Temperature
Temperature Extremes
Temperature Forecasting
Temperature Frequencies
Temperature Gradient
Temperature Periodicities
Temperature Trends
Temperature Variability
Terminal Weather
Terminology
Text Books
Thermometers
Thunderstorms
Topoclimatology
Tornadoes
Turbulence

Upper Air
Upper Air Data
Upper Winds

Visibility

Water Conservation
Water Spouts
Water Temperature
Weather Cycles
Weather Flights
Weather Journals
Weather Notes
Weather Ships
Weather Stations
Weather Systems
Wet Periods
Wind
Wind Chill
Winter Weather

APPENDIX III

LIST OF GEOGRAPHICAL HEADINGS USED IN INDEX

British Columbia
Prairie Provinces (Alberta, Saskatchewan, Manitoba)
Ontario
Quebec
Maritime Provinces (New Brunswick, Nova Scotia, Prince Edward Island)
Labrador
Newfoundland
Northwest Territories
Yukon (Territory)
Pacific (Ocean)
Atlantic (Ocean)
Great Lakes
St. Lawrence (Gulf)
Hudson Bay
United States

APPENDIX IV

AN INVENTORY OF CANADIAN CLIMATIC DATA PERIODICALS

Canadian data periodicals and publications are being issued daily, weekly, monthly and annually by the Meteorological Branch and other organizations in Canada. Requests for data can often be handled by supplying copies of these publications and frequently a user finds it advantageous to subscribe to a publication. This inventory has been compiled both for the information of prospective users and as an aid in bringing Meteorological Branch personnel up-to-date on the availability of these periodicals.

As this inventory consists of periodicals only, many valuable data summaries and listings are not included. Such publications as the various Climatic Summaries, technical and climatological circulars, journal articles, scientific papers and special Arctic and upper air summaries purposely have not been listed in this inventory. The CLIMAT Maps, which are as yet only available on the facsimile circuit, are not listed here, nor are growing degree data which are not being made available on a regular basis.

The inventory is divided into two sections (A) listing of publications of the Meteorological Branch, and (B) publications issued by other organizations in Canada and abroad. A limited amount of information is given regarding each publication—when the periodical began, the originating office, the frequency of appearance, and some information about the content. The names of originating agencies are given for non-Meteorological Branch publications.

A. METEOROLOGICAL BRANCH PERIODICALS

1. *Monthly Meteorological Summary*—Issued monthly from about 33 different local meteorological offices in Canada and is usually available between the 3rd and 15th of the following month. The first summary was issued from Toronto in January 1941 but most of the summaries are of more recent origin. Daily values of all standard climatological elements are shown in these summaries along with hourly values of temperature, wind and humidity at some stations. Comparative values from the period of record are also listed for each month.
2. *Monthly Weather Map*—Issued monthly from Toronto since 1895 and is now published about 5 weeks after the close of each month. This periodical contains one page of text, a multi-paged table showing monthly values of temperature, precipitation and sunshine for about 1500 stations and maps of total precipitation and departure from normal temperature. Currently the publication consists of eight pages.

3. *Monthly Summary of Degree-Days*—Issued monthly from Toronto from September to May and contains monthly and heating seasonal accumulation of heating degree-days below 65°F, along with normal values for 50 Canadian cities and towns. This mimeographed summary is available about four weeks after the close of each month, while a special annual issue is available each summer containing a summary of heating degree-day information for the past heating season for 150 Canadian localities.
4. *Monthly Record of Meteorological Observations in Canada*—This publication has been issued monthly at Toronto since January 1916, but is at present about 1 year in arrears. The *Monthly Record* is the most complete monthly summary of temperature, precipitation, wind, sunshine and general weather available for all Canadian stations. Daily listings of temperature, precipitation, sunshine and radiation are given.
5. *General Summaries of Hourly Weather Observations in Canada*—These summaries have been published annually at Toronto since 1944 and are available in two parts about a full year after the close of the year. Monthly tables of weather types, cloud amounts and types, obstructions to vision etc., are accompanied by tables showing conditions of cloud ceilings, visibility and wind directions by speed groupings.
6. *Snow Cover Data, Eastern Canada*—This periodical was begun for the winter of 1954-55, and is issued annually from Toronto about six months after the end of the snow cover season in southeastern Canada. The periodical contains a listing of all available data on the depth of snow on the ground twice a month from climatological observing stations and monthly data on snow depth and water equivalents from snow course surveys. Much of the data in this periodical is supplied from snow courses operated by other organizations.
7. *Annual Meteorological Summary*—Issued annually from about 12 different local meteorological offices and is available within two to three months after the close of each year. The first annual summary was issued from Toronto for 1941 and the number of stations preparing and issuing annual summaries has slowly grown over the past two decades. In this periodical a complete tabular review of the weather for the past year is shown along with comparative data for past years.
8. *Weather Summary for the Prairie Provinces*—This mimeographed summary is issued weekly from Winnipeg as a supplement to the *Daily Weather Map* for the period April 1st through September 30th each year. This summary has been issued since 1936 and currently contains weekly precipitation totals and temperature averages for over 200 stations in the grain areas of Manitoba, Saskatchewan, and Alberta. A short text and comparative information are also included.
9. *Monthly Weather Review*—This periodical was a monthly résumé of routine meteorological observations at all Canadian stations and was issued from Toronto during the period 1877 to 1915.
10. *Report of the Meteorological Service of Canada*—During the first 36 years of the Meteorological Service from 1871 to 1915 climatological summaries from all Canadian stations were issued from Ottawa as part of the annual report of the Department of Marine and Fisheries. This publication was replaced by the *Monthly Record* in 1916.
11. *Monthly Bulletin of Canadian Radiosonde Data*—This summary of upper air data begins with the January 1959 issue. It is produced at Toronto and is scheduled to be issued about 6 months after the close of each month, after the initial difficulties have been overcome.
12. *Climatological Summary—Arctic Stations*—This publication has also been authorized to begin with the data for 1959 and the first issue containing data from the five joint

weather stations in the Arctic along with Sachs Harbour and Clyde will be issued for the six-month period January through June 1959. The publication is scheduled to appear twice yearly about six months after the close of each period in question.

13. *Monthly Radiation Summary*—The first issue of this summary appeared in January 1960 and is designed to provide research scientists, engineers and other interested parties with radiation data from measurements at Canadian stations as soon as possible after the end of each month.

B. PERIODICALS ISSUED BY OTHER ORGANIZATIONS

1. *Climate of British Columbia*—Issued by the Department of Agriculture Province of British Columbia annually from data supplied by the Meteorological Branch at Victoria, B.C. The periodical contains tables of temperature, precipitation, and sunshine along with comparative values from the period of record.
2. *Navigation Conditions on the Hudson Bay Route*—This report has been issued annually by the Department of Transport in Ottawa since 1929 and contains detailed weather statistics for stations on and near the route from the Atlantic seaboard to the port of Churchill for each navigation season. Weather data tables are supplied from Montreal and Toronto.
3. *Monthly Bulletin of Agriculture Statistics*—This publication is issued monthly from Ottawa by the Dominion Bureau of Statistics and includes a section on meteorological data from the different experimental farms. These data are supplied by the Meteorological Branch in Toronto to the Department of Agriculture in Ottawa.
4. *Agricultural Statistics of Ontario*—This is a publication issued annually from Toronto by the Ontario Department of Agriculture and contains monthly climatic data and normals from 100 Ontario stations supplied by the Meteorological Branch.
5. *Meteorological Bulletin*—This periodical is issued by the Quebec Department of Trade and Commerce and contains several pages of monthly climatic data from stations in Quebec. These data are supplied by the Quebec Department of Hydraulic Resources, the Quebec Meteorological Bureau and the Meteorological Branch.
6. *Monthly Weather Summary—Province of New Brunswick*—This Monthly Summary was begun during the summer of 1960 and contains a page of text describing the precipitation and temperature regime of the month in the province along with maps of precipitation, normal precipitation, percentage of normal precipitation, normal mean daily temperature, mean daily temperature and departure from normal mean temperature.
7. *Statistical Year Book*—This is an annual publication issued by the Quebec Bureau of Statistics containing a section on Meteorology in which climatic data are listed for Quebec stations. Some of these data are supplied by the Meteorological Branch.
8. *Daily Series Synoptic Weather Maps Northern Hemisphere Sea Level and 500 mb. Charts*—These daily hemispherical maps are issued by the United States Weather Bureau and are bound into monthly booklets. The series consists of maps from the period 1899 to 1939 issued jointly by the Weather Bureau and the U.S. Army Air Forces, from 1945 to 1948 by the U.S. Air Force, and from 1949 to the present by the United States Weather Bureau.
9. *Daily Series Synoptic Maps Part II Northern Hemisphere Data Tabulations, daily bulletin*—This daily listing is issued by the United States Weather Bureau from Asheville and contains data on winds aloft, radiosonde and rawinsonde data as well as surface synoptic data for all Canadian upper air and surface synoptic stations.

10. *Monthly Climatic Data for the World*—This publication is sponsored by the World Meteorological Organization in cooperation with the United States Weather Bureau, is produced at Asheville and contains basic temperature, precipitation, humidity and pressure data for 44 Canadian stations. Canadian data are based on CLIMAT messages supplied from Toronto each month. The periodical appears about two months after the close of each month in question.

